TEST PROCESS #1

TEST PROCESS #	TITLE	MODEL NO. & PL	PRODUCT LINE
221-0007	PROCESS FOR OPERATION OF SIEMENS CONTACT FAULT LOCATOR		MUX

12.10

TEST EQUIPMENT NEEDED

Siemens K2007 contact fault locator.
1 - [redacted] tap tool

REFERENCES

PARTS LIST -

ASSEMBLY DRAWING-

TEST SPECIFICATION-

WIRING DIAGRAM-

PLANNED BY: J. Bass

DATE: 10/16/75

APPROVED BY: [signature] QCE

QCA

MODEL NO. _____ TEST PROCESS NO. _____ PLANNED BY: _____

PARTS LIST _____ SHEET _____ OF _____ DATE _____

GROUPS _____ LATEST GL # _____

TEST PROCESS #2

STEP	STEPS OF OPERATION	TOTAL MIN
	NOTE: Locating contact fault requires reasonable judgement on the part of the tester.	
	Coils, capacitors and transformers may cause microphonics when subjected to the impact	
	of tap tool. Distinguishing between Microphonics and actual contact faults may be	
	difficult. Generally real contact faults cause random clicks that vary in intensity	
	with the same tapping force clicks caused by microphonics are not random in occurance	
	and present constant click intensity with constant tapping force. If the clicks heard	
	are suspected of being caused by microphonics decrease the tapping force on the component	
	and inspect solder connections and leads carefully to insure they are not causing the	
	indicated faults. Unusually sensitive components should be replaced.	

TOTAL M/E
TOTAL M/U

MODEL NO. _____ TEST PROCESS NO. _____ PLANNED BY: _____

PARTS LIST _____ SHEET _____ OF _____ DATE _____

GROUPS _____ LATEST GL # _____

TEST PROCESS #2

STEP	STEPS OF OPERATION	TOTAL MIN
16.	Pull gently on all wires and jumpers both along the axis of the wire and at right angles to it.	
	Caution - care should be taken when pulling very small wire to avoid breaking it.	
17.	Any click heard should be considered a fault and investigated.	
18.	Tap sealed filters gently with tap tool along the length of the cover.	
	Caution - Crystal filters should be gently struck with the closed fist along the length of	
	the cover.	
19.	Any click heard should be considered a fault and investigated.	

TOTAL M/E
TOTAL M/U

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TEST PROCESS #2

STEP	STEPS OF OPERATION	TOTAL MIN
10.	Press button T1. An audible click should be heard with S6 in 30% or 100% positions, but	
	should not be heard in 10% position. If necessary readjust P1 such that an audible click	
	is heard when T1 is depressed with S6 in 30% or 100% but just disappears when S6 is in	
	10%. Test made with S6 in 30% position.	
11.	Gently touch (do not tap) each component, with the narrow end of the tap tool while listening	
	for a click from the loud speaker or headset.	
12.	Any click heard should be considered a fault and investigated.	
13.	Gently tap each component with the tap tool while listening for clicks from the	
	loudspeaker or headset.	
14.	Any click heard should be considered a fault and investigated.	
15.	Repeat step 13 and 14 this time using slightly more tapping force, but not so much force as to	
	damage the component.	

TOTAL M/E
TOTAL M/U

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GROUPS _____ LATEST GL # _____

TEST PROCESS #2

STEP	STEPS OF OPERATION	TOTAL MIN
2.	If unit under test has 600 OHM output set S4 to 600.	
	If unit under test has 150 OHM output set S4 to 150.	
	(output frequency must be within 3KHZ to 600KHZ.) If unit output impedance is 75 OHM see step 4.	
3.	Connect the output of unit under test to BU3 detector input.	
4.	If unit under test has a 75 OHM input impedance and has an putput in the range 50 KHZ to 12.5 MHZ	
	connect the unit output to BU 2 detector input.	
5.	Set S10 to rec. level.	
6.	Adjust S5 such that the meter reads between -5 and +1db.	
7.	Set the volume control P2 fully CW.	
8.	Set S6 to 100%	
9.	Adjust the squelch control P1 until any interfering noise just disappears.	

TOTAL M/E
TOTAL M/U

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GROUPS _____ LATEST GL # _____

TEST PROCESS #2

STEP	STEPS OF OPERATION	TOTAL MIN
I.	Setting the generator	
1.	Set the generator frequency to a frequency within the transmission range of the unit being tested.	
	Usually in the center of transmission range. Switch S1 and knob C1 are used to set the	
	frequency.	
2.	Set the output level to that desired using S2 and S3. The output level should be set to the	
	normal input level of the unit being tested.	
3.	Connect the generator output to the input of the unit under test.	
4.	Connect the detector input (BU2 or BU3 as required) to the output of the unit under test.	
II.	Setting the detector	
1.	The detector has two inputs. BU2 has an input impedance of 75 and is used in the	
	frequency range from 50 KHZ to 12.5 MHZ. BU3 has three possible input impedances one of which	
	is selected by S4 and is used in the range from 3 KHZ to 600 KHZ.	

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TOTAL M/E
TOTAL M/U